

FORMULATION AND DELIVERY METHOD TO ENHANCE ANTIOXIDANT POTENCY OF  
VITAMIN E

ABSTRACT

5       A formulation to deliver a full-spectrum of Vitamin E isomers for improved antioxidant capacity, bioavailability, dissolution and efficacy. The formulation includes dl- $\alpha$ -tocopheryl acetate or dl- $\alpha$ -tocopheryl succinate (synthetic Vitamin E), natural Vitamin E and mixed tocopherols, such as  $\alpha$ -,  $\beta$ -,  $\gamma$ - and  $\delta$ -tocopherol, as well  
10      as four isomers ( $\alpha$ ,  $\beta$ ,  $\gamma$  and  $\delta$ ) of tocotrienols. This formulation is designed to deliver at least 17-times the antioxidant capacity of synthetic Vitamin E (dl- $\alpha$ -tocopheryl acetate), and at least twice the antioxidant capacity of natural Vitamin E (d- $\alpha$ -tocopherol) as measured by oxygen radical absorbance capacity  
15      (ORAC) assay. The potent antioxidant capacity of this formula affords protection against oxidative damage of cell membranes, heart disease, cancer and eye and skin disease.